

**WHAT IS CLAIMED IS:**

1. A print ink for a plastic film, the print ink comprising:  
5 an antistatic agent added therein.

2. A print ink for a plastic film according to claim 1, wherein  
the plastic film is transparent or semi-transparent, and the print  
ink, which is antistatic, is a gravure ink for backing up.

10

3. A print ink according to claim 1, further comprising:  
a main component of a vehicle binder, the main component  
being a complex composition of two or more types of polyurethane  
resins.

15

4. A print ink for a plastic film according to claim 3, wherein  
said polyurethane resin is print ink comprising a mixed composition  
of a water dispersion type of high Tg polymer and a water dispersion  
type of low Tg polymer.

20

5. A print ink for a plastic film according to claim 4, wherein  
a polymeric mixed composition of said water dispersion type of  
high Tg polymer and said water dispersion type of low Tg polymer,  
further comprises:

25 an ultra-high molecular weight polyvinyl pyrrolidone added

therein as a stabilizer.

6. A print ink for a plastic film according to claim 1, wherein  
said antistatic agent is added to an aqueous mixed solution of  
5 a complex polyurethane resin and polyvinyl pyrrolidone.

7. A plastic ink according to claim 6, wherein said antistatic  
agent is a mixed aqueous solution of a alkyldimethyl betaine acetate  
and an electrolytic metallic salt.

10

8. A plastic film and print ink combination, comprising:  
a transparent or semi-transparent plastic film printed  
material; and

an aqueous antistatic print ink, said plastic film printed  
15 material being backed up by said aqueous antistatic print ink.

9. An print ink according to claim 1, wherein a resin component  
of said vehicle binder is ester-based polyurethane resin capable  
of being dissolved in an organic solvent.

20

10. A plastic ink for a plastic film according to claim 9, wherein  
said ester-based polyurethane resin is a mixed composition of a  
high Tg polymer and a low Tg polymer each based on an organic solvent.

25 11. A print ink for a plastic film according to claim 10, wherein

an antistatic agent including said ester-based polyurethane resin is added to an organic solvent solution for the ester-based polyurethane.

5 12. A print ink for a plastic film according to claim 11, wherein said antistatic agent is a mixed composition of fatty acid dimethylethyl ammonium ethosulfate and polyoxyethylene alkyl ether.

10 13. A transparent or semi-transparent plastic film printed material backed up with the antistatic print ink based on an organic solvent.

14. A print ink and plastic film combination, comprising:  
15 a plastic film; and  
a print ink with an antistatic agent added therein.

15. A print ink and plastic film combination according to claim 14, wherein the plastic film is transparent or semi-transparent,  
20 and the print ink, which is antistatic, is a gravure ink for backing up.

16. A print ink and plastic film combination according to claim 15, further comprising:  
25 a main component of a vehicle binder, the main component

being a complex composition of two or more types of polyurethane resins.

17. A print ink and plastic film combination according to claim  
5 16, wherein said polyurethane resin is print ink comprising a mixed composition of a water dispersion type of high Tg polymer and a water dispersion type of low Tg polymer.

18. A print ink and plastic film combination according to claim  
10 16, wherein a polymeric mixed composition of said water dispersion type of high Tg polymer and said water dispersion type of low Tg polymer, further comprises:

an ultra-high molecular weight polyvinyl pyrrolidone added therein as a stabilizer.

15

19. A print ink and plastic film combination according to claim  
14, wherein said antistatic agent is added to an aqueous mixed solution of a complex polyurethane resin and polyvinyl pyrrolidone.

20 20. A print ink and plastic film combination according to claim  
19, wherein said antistatic agent is a mixed aqueous solution of an alkyldimethyl betaine acetate and an electrolytic metallic salt.

25